INDEX OF AUTHORS

Adams, Mark H., 401
Adams, S. L., 524
Alexander-Jackson, Eleanor, 415
Anderson, J. A., 204
Artagaveytia-Allende, Ricardo C., 317

Barail, Louis C., 526
Beadle, G. W., 101
Bellamy, W. D., 112
Benedict, Robert G., 85
Bergeim, Olaf, 453
Blevins, Anne, 416, 603
Bonner, David, 101
Boruff, C. S., 307
Bottcher, Elizabeth J., 112, 359
Bozeman, S. R., 108, 109
Bradford, William L., 111
Brigham, George D., 207
Bronfenbrenner, J., 107
Brown, Rachel, 199
Bruner, Dorsey W., 511
Buchbinder, L., 413, 414
Buck, M., 525
Buttolph, L. J., 203

Carlson, M., 526
Carr, M., 520
Cavell, Korine, 522
Chapman, George H., 415
Cheldelin, Vernon H., 31, 41
Clark, C. F., 202
Coates, Margaret, 514
Coffee, W. B., 109
Coghill, Robert D., 85, 411
Coleman, Madeline F., 187
Conn, H. J., 112, 359
Cope, Elizabeth J., 526
Curran, Harold R., 335

Dawson, M. H., 416
Day, Elizabeth, 111
Deacon, Wilbur E., 511
Delahanty, M. E., 524
Dillon, E., 413
Doermann, A. H., 315
Doudoroff, Michael, 177

Edwards, P. R., 513, 514, 524
Ehrich, W. E., 201
Eiman, John, 520
Eldering, G., 202
Emmart, E. W., 200
Englar, Thomas S., 110
Engley, Frank B., Jr., 245
Ercoli, N., 525
Evans, Fred R., 335
Evans, J. B., 105

Fastier, L. B., 633
Feenstra, E. S., 202
Felton, H., 520
Fendt, Elfriede, 111
Ferguson, W., 526
Florman, Alfred L., 507
Foshay, Lee, 209, 233
Foster, Jackson W., 7, 19
Fowler, Elizabeth H., 519
Fowler, Russel, 520
Freiberg, G. W., 202

Galtsoff, Paul S., 109
Garey, J. C., 307
Garnjobst, Laura, 113
Germain, R. O., 515
Goetchius, G. R., 200, 575
Gradwohl, R. B. H., 107
Gray, William D., 445
Gunsalus, I. C., 112, 347

Hajna, A. A., 516, 518
Hall, Ivan C., 417
Hanes, Marjory, 526
Hansen, P. Arne, 110
Hao, L. C., 524
Harker, E. M., 525
Harris, T. N., 201
Harrison, James A., 519
Hatch, Ray D., 110
Henry, Jane, 71, 79, 129, 139
Hershey, A. D., 107
Hesselbrock, W., 209, 233
Hoag, Edward H., 41
Hobby, Gladys L., 416
Hoeprich, P. D., 515
Hoffstadt, Rachel E., 106
Holmes, Lida F., 311
Holtman, D. Frank, 159, 313
Hoogerheide, J. C., 277
Hoover, Sam R., 563
Hoyt, Robert E., 523
Hull, F. E., 523

Imšenecki, A., 1, 539

Jennings, Robert K., 163
Johnson, Richard B., 112
Jungeblut, Claus W., 416

Kalnitsky, George, 595
Karow, Edward O., 19
Kelly, D. R., 525
Kendrick, P. L., 202
Kessel, John F., 522
Kirch, E. R., 453
Kleinberg, Jacob, 453
Knaysi, Georges, 375, 473, 617

Lang, Louis, 414
Larsen, Alma, 495
Lawrence, C. A., 47, 57, 149, 200, 575
Lawson, George McL., 110
Leonian, Leon H., 291
Levine, Max, 623
Levine, Milton G., 523
Lilly, Virgil Greene, 291
Lincoln, I., 520
Lindegren, C. C., 257
Little, Paul A., 204
Luria, S. E., 205

McClung, L. S., 206, 611
McCoy, Elizabeth, 271
Mackinnon, Juan E., 317
McKinstry, D. W., 204
MacNeal, Ward J., 416, 603
Mallmann, W. L., 526
Maltaner, Elizabeth, 199
Maltaner, Frank, 199
Marks, H. C., 299
Melnick, Daniel, 414
Mitchell, H. K., 101
Moomaw, F. J., 108
Morrison, H. B., 523
Morton, Harry E., 237, 245
Mudd, Stuart, 65, 417, 520, 527
Munder, R., 519
Munoz, J., 524

Naghski, Joseph, 563
Neefe, John R., 201
Niven, C. F., Jr., 105, 111

O'Bryan, Billie E., 312
Oleson, A. Paul, 85
Orcutt, F. S., 108, 109, 110

Oser, Bernard L., 414
Osler, A. G., 413

Pait, C. F., 522
Pangborn, Mary C., 199
Parrish, Margaret, 522
Parry, E. Winifred, 112
Parsons, Carr H., 203
Perez-Otero, J. Enrique, 237
Perlman, David, 167, 271
Perry, C. A., 518
Pickett, M. J., 515
Powell, H. M., 206
Pratt, D. B., 205

Randall, Challiss, 112, 359
Randall, Charles C., 511
Reddish, G. F., 107, 635
Reed, G. B., 503
Reeves, Max D., 395
Reid, J. J., 187
Reilly, H. Christine, 585
Rettew, G. Raymond, 201
Richardson, Ruth A., 71, 79, 129, 139
Rittschof, L. A., 307
Roe, Amy S., 401
Rosenfeld, William D., 521
Rustigian, Robert, 419, 437

Sage, Dorothy, 520
Salle, A. J., 521
Sanders, Dorothy W., 206, 611
Sanders, Robert G., 635
Saphra, Ivan, 525
Sarett, Herbert, P., 31, 41
Saudek, E. C., 315
Schatz, Albert, 585
Scherago, M., 524
Scherp, Henry W., 111
Schmidt, William H., 85, 395, 411
Schnitzer, R. J., 525
Schuhardt, V. T., 312
Schweinburg, Fritz B., 193
Seibert, Florence B., 200
Senn, Josephine Beckwith, 522
Sevag, M. G., 65, 71, 79, 129, 139
Severens, J. M., 383
Shelburne, Myrtle, 65
Smiley, K. L., 111
Smolens, J., 520
Solnzeva, L., 539
Solotorovsky, Morris, 414
Solowey, Mathilde, 414
Sordelli, Alfredo, 204

Spiegelman, S., 108, 257
Srb, A. M., 315
Stark, W. H., 524
Stokes, J. L., 495
Stone, Leonard, 307
Stone, R. E., 109
Strandskov, Frede B., 299
Strawinski, R. J., 519
Stuart, C. A., 419, 437

Tanner, F. W., 383
Thomas, A. R., Jr., 623
Thompson, M., 202
Thorp, F., Jr., 202
Toabe, Ruth, 206
Tobie, Walter C., 459
Tuttle, Dorothy M., 111

Umbreit, W. W., 347
Utter, M. F., 595

van Stratum, Elizabeth, 437
Verwey, W. F., 519, 520
von Gutfeld, F. J., 108, 109

Waksman, Selman A., 585
Walker, L., 520
Ward, George E., 411
Warren, George H., 519, 547
Weatherwax, Paul, 206, 611
Weaver, R. H., 524
Weed, Lyle A., 207
Weil, A. J., 203
Weiss, Alice B., 507
Werkman, C. H., 595
Whelton, Rita, 177
White, J. C., 105
White, Jonathan W., Jr., 563
Whitman, Alma L., 110
Wilcox, Kingston S., 514
Willaman, J. J., 563
Williams, O. B., 629
Wilson, J. K., 112
Wilson, Mary E., 311
Wolf, Paul A., 463
Woodruff, H. Boyd, 7
Woods, J. K., 524
Worley, Gordon, Jr., 97
Wynne, E. S., 629
Wyss, Orville, 299

Yetwin, I. Jacques, 193
Young, Gerald, 97

Zamenhof, Stephen, 413
ZoBell, Claude E., 522

INDEX OF SUBJECTS

Acetobacter subozydans, amino acid requirement of, 495
Adaptation of yeast to galactose by sporulation, 257
— to environment by selective growth, 383
Adaptive enzymes, 108
Aerobacter fermentation controlled by metallic ions, 167
Aging, rapid, of thermophiles, 539
Air, bacterial content of, in schools, theaters, etc., 414
— sterilization in hospitals, 522
Alcaligenes radiobacter, serology of S and M phase, 187
—, symbiosis with *Lactobacillus*, 204
Alcohol from sweet potatoes, 524
Amino acid assay by microbes, 31, 204, 315
— acid requirements of *Acetobacter subozydans*, 495
— acids interfering with β-alanine utilization, 31
Anaerobic bacteria, structure of, 1
Antagonists to sulfonamides, 65, 71, 79
Antibiosis of viridans streptococci *vs. Mycobacterium tuberculosis*, 110
Antibiotics from Indian plants, 611
— having antifungal properties, 585
—, lytic substance from *Escherichia coli*, 413
—, streptothricin and *Lactobacilli*, 271
Antibody formation, role of lymphocyte in, 201
Antifungal properties of antibiotics, 585
Antigenic structure of luminous bacteria, 519, 547
— variation in *Paramecium*, 519
Antipenicillin effects, 7, 9, 47, 57
Antipneumococcus serum affecting *Escherichia coli*, 111
Antiseptic fabrics (title only), 526
Antiseptics, benzene sulfonic acid derivatives, 575
—, chemotherapeutic principles, 527
—, organic mercurials, 108
—, *p*-aminomethylbenzenesulfonamides, 149
—, sulfamethazine, 193

—, sulfanilylanilides, 575
—, unsaturated ketones fungistatic, 585
—, *see also* Antibiotics
Antitoxins, flocculative reaction test for, 203
Antituberculosis sera tested with chick embryos, 200
Arginine metabolism of *Neurospora*, 315
Asparagine interfering with β-alanine utilization, 31
Aspartic acid assay, 204
Assimilation during growth and rest, 177
Athlete's foot transmitted by soap, 109

β-Alanine a nutrilite for yeast, 31
Bacillus, carbohydrate metabolism of, 108, 109
—*columnaris*, 113
— *mycoides*, factors controlling sporulation, 473
— *mycoides*, reserve material in endospores, 617
Bacterial cell, dimensions of the, 375
Bacteriolytic substance from *Escherichia coli*, 413
Bacteriophage interference and competition, 205
—mutants, 205
— of *Pseudomonas pyocyanea*, 633
— of *Rhizobium* used in taxonomy, 112
— -resistant bacteria producing nibbled colonies, 205
— used in taxonomy, 112, 359
— variants, 107
— viability in blood stream, 237, 245
Bacteriostasis, *see* Antiseptics
Bacterium tularense, filterability of, 233
— *tularense*, morphology of, 209
Benzene sulfonic acid derivatives not antagonized by *p*-aminobenzoic acid, 575
Biotin from desthiobiotin, 291
Butyric acid oxidized by streptococci, 105

Candida, redefinition of genus, 317
Capsular swelling of *Escherichia coli* by serum, 111
Carbon dioxide as growth factor replaced by amino acids, 111
Carboxylase content of staphylococci dependent upon glucose, 68
— inhibited by sulfathiazole, 65, 71
Cardiolipin in precipitation tests for syphilis, 199
Casein hydrolyzate medium for testing disinfectants, 463
Cell dimensions, methods of measuring, 375
— -free enzymes from bacteria, 595
— inclusions of *Malleomyces*, 97
Cellulose fermentation by *Clostridium roseum*, 563
— fermented by thermophiles, 205
Chemotherapeutics, *see* Antiseptics
Chemotherapy and intracellular disease agents, 527
— of intracellular parasites (title only), 417
Chlorine-containing compounds, mode of disinfection with, 299
Chorio-allantoic membrane for testing tuberculosis antisera, 200
Clarase destroying penicillin, 47, 57
Classification of soil bacteria by bacteriophage, 359
Clostridium botulinum in New York soils (title only), 112
— *parasporogenes* variant of *Clostridium sporogenes*, 503
— *roseum* in rubber production, 563
— *tetani*, nontoxic strains, 206
— *welchii* infections, 207
Coenzyme derivatives as chemotherapeutics, 530
Complement fixation in bovine tuberculosis (title only), 112
Corn oil increasing penicillin yield, 313
Corynebacteria in bovine pyelonephritis, 202
Corynebacterium equi pathogenic to calves, 159
Cryptostegia leaves as source of rubber, 563
Cytology of anaerobes, 1
Cytophaga columnaris, 113

Decarboxylase for tyrosin in *Streptococcus faecalis* (title only), 112
Desulfovibrio producing hydrocarbons, 522
Diagnosis, *see* Taxonomy
Diphtheria immunity problems (title only), 204
Diphtheroids in infectious bovine pyelonephritis, 202
Disinfectants, casein medium for testing, 463
—, chlorine-containing compounds, 299
—, iodine intensified by redox potential, 521
—, *p*-aminomethylbenzenesulfonamides, 149
—, quaternary ammonium salts, 277
—, soap not killing pathogenic fungi, 109

—, succinchlorimide, 107
—, sulfamethazine, 193
—, testing by dilution method, 526
—, variation in resistance of substrains, 463
Disinfection by ultraviolet, 203
—, effect of pH, temperature, and organic matter, 277
Dissociation, *see* Microbic dissociation
Distillery mash, protein increase in, 524
— mashes, bacterial population of, 307
Dormancy of spores overcome by heat activation, 335
Dysentery, protection against, by phage injection, 245

Encephalitis of cow caused by *Listerella*, 110
Endameba histolytica killed by succinchlorimide, 108
Endocarditis, bacteriological study of, 603
—, bacteriology of, 415
Endospore formation, factors controlling, 473
—, heat activation of, 335
—, reserve material of, 617
Enterobacteriaceae, diagnosis of, 525
Environmentally induced characters inheritable, 383
Enzymes, adaptive, 108
—, cell-free, from bacteria, 595
— inhibition as cause of antisepsis, 527
Escherichia coli-mutabile, mutation rates, 413
— *coli* producing bacteriolytic substance, 413
Ethanol fermentation of sweet potatoes, 524
Evaporated milk causing gastroenteritis, 413

Fat decomposition by anaerobes, 521
Filterable forms of *Bacterium tularense*, 233
Flocculative reaction for testing toxins, 203
Food industries, bacteriological control in, 414
— poisoning by staphylococcus, 110
— preservation (title only), 315
Formate fermentation not inhibited by sulfonamides, 129
Fumarate reductase system in bacteria, 112
Fungistatic properties of antibiotics, 585

Galactose fermentation, adaptation to, 257
Gas gangrene infections, 207
Gastroenteritis from evaporated milk, 413
Gastrointestinal contents, reduction potential of, 453
Gene mutations and growth factor requirements, 202
Germicidal lamps, 203
Germicides, *see* Disinfectants
Glanders organism, cell inclusions of, 97
Glucose utilization affecting pH in different ways, 108, 109
Glycerol oxidation by *Streptococcus faecalis*, 347
Gonococcal infection, diagnosis of, 415
Growth factors affected by gene mutations, 202
— factors of meningococcus, 111
— metabolism *vs.* resting cell metabolism, 177

Heat activation of bacterial spores, 335
Hemolysis emphasized by horse meat media, 106
Hemophilus influenzae causing laryngitis, 520
— *pertussis*, culture medium for, 520
— *pertussis* hyperimmune serum, 520
Hepatitis, infectious, 201
Herellea, 512
Horse meat infusion, 106
Hydrocarbons attacked by bacteria, 522
— from fatty acids, 522
Hydrogen-producing bacteria in ocean, 522
Hydrogenlyase not inhibited by sulfonamides, 129

Influenza virus storage, 507
— virus vaccine, production of, 206; (title only), 204
Inheritance of induced characters, 383
Intestinal bacteria, medium for identification of, 516
Intestine contents, reduction potential of, 453
Intracellular disease agents and chemotherapy, 527
— parasites, chemotherapy of (title only), 417
Iodine disinfection stimulated by redox potential, 521
Iron in medium affecting assimilation, 181
— -sugar agar for Enterobacteriaceae, 516

Lactobacilli requiring pantothenic acid, 41
Lactobacillus symbiosis with *Alcaligenes*, 204

Laryngitis caused by *Hemophilus influenzae*, 520
Lipoclastic anaerobes, 521
Lipoid granules in *Malleomyces*, 97
Lipoproteins present only in aerobes, 1
Listerella infection in cow, 110
Luminous bacteria, antigenic structure of, 519, 547
Lymphocyte role in antibody formation, 201
Lysine assay by *Neurospora*, 315
Lytic principle in culture of *Pseudomonas pyocyanea*, 633
— substance from *Escherichia coli*, 413

Mal del pinto, 107
Malleomyces mallei, cell inclusions of, 97
Meat infusion from horse meat, 106
Meningococcus growth requirements, 111
Mercurials, organic, as antiseptics, 108
Metabolism during growth and rest, 177
Metal ions controlling type of fermentation, 167, 181
Mexico's public health (title only), 200
Microbic dissociation and penicillin assay, 411
— dissociation of yeasts (*Candida*), 317
— dissociation, serology of S and M phase, 187
Micrococcus moricolor, 311
Microscopic measurement of bacterial dimensions, 375
Milk, evaporated, causing gastroenteritis, 413
Mimeae, description of genus, 511
Morphology of anaerobes, 1
Morphology of bacteria changed by penicillin, 623
Mouth, microorganisms of the, 635
Mutation in *Neurospora*, 315
— rates of *Escherichia coli-mutabile*, 413
Mycobacterium tuberculosis killed by viridans streptococci, 110
— *tuberculosis*, non-acid-fast strains, 415

Neoarsphenamine in endocarditis, 603
Neopeptone antagonizing sulfonamides, 79
Neurospora, a lysine-requiring mutant of, 315
—, arginine metabolism of, 315
"Nibbled" colonies due to phage mutants, 205
Nitrous acid destroying vitamins and pigments (title only), 112
Nodule bacteria viability, 110

Oral microorganisms, 635
Organomercurials as antiseptics, 108
Oxidation-reduction potentials of intestine contents, 453
— -reduction potential stimulating iodine disinfection, 521
Oxygen supply affecting sporulation, 473

p-Aminoalkylbenzenesulfonamides, 200
p-Aminobenzoic acid antagonizing sulfathiazole, 71
— acid derivatives affecting sulfonamides, 200
— acid not antagonizing certain sulfonamides, 575
p-Aminomethylbenzenesulfonamides, 149
Pantothenic acid and yeast growth, 31
— acid requirement of lactic acid bacteria, 41
Paracolonlike bacterium, 513
Paramecium, antigenic variation of, 519
Pasteurella tularense considered nonvalid, *see Bacterium tularense*, 209
Patents relating to microbes (title only), 202
Penicillin action affected by sulfadiazine, 416
— affected by pH and temperature, 85
— affecting morphology of bacteria, 623
— against *Treponema pallidum*, 525
— assay and microbic dissociation, 411
— assay by cylinder-plate method, 101
— assay, device for placing cylinders on plate, 395
— destruction by penicillinase, 7, 9
—, effect on intestinal bacteria, 623
— from different fungi, 19
— in endocarditis, 603
— in experimental pneumonia, 525
— inactivation by enzymes, 47, 57
—, intracranial, therapy, 312
—, oral administration effective, 525
— production by aspergilli, 19
— production, development of, 201
—, sterility test for, 47
— yield increased by corn oil, 313
Penicillinase, extracellular, 9
— produced by bacteria, 7
Perry's medium for fecal streptococci, 526
Pertussis hyperimmune serum, 520
— treatment with sulfadiazine and serum, 111
— vaccine, effect of booster dose of, 202
Petroleum compounds attacked by bacteria, 522

pH affecting penicillin, 85
— affecting sporulation, 473
— and chlorine disinfection, 299
— produced and glucose used, 108
Phenazine pigments characteristic for *Pseudomonas*, 459
Phosphorescent bacteria, antigenic structure of, 519, 547
Phytomonas tumefaciens, serology of S and M phase, 187
Pigment destruction by nitrite (title only), 112
— -producing micrococcus, 311
Plants furnishing antibiotics, 611
Plaque-type variation of bacteriophage, 107
Plasmolysis of yeast by sugar, 445
Pneumococcus, synthetic medium for, 401
Pneumonia, experimental, and penicillin, 525
— in calves by *Corynebacterium equi*, 159
Polyomyelitis virus, simian and murine strains (title only), 416
Prophylaxis against dysentery by phage injection, 245
Protein fortification of distillery mash, 524
— -sparing action of carbohydrates, 108
Proteus, biochemical relationships of species of, 419
— speciation, 523
—, urease formation by, 419, 437
Pseudomonas, biochemical definition of genus, 459
— *pyocyanea*, bacteriophage of, 633
— *saccharophila* synthesis, 177
—, serological study of species, 524
Pyelonephritis, diphtheroids formed in bovine, 202
Pyruvic acid competing with sulfathiazole, 71

Quaternary ammonium salts, germicidal properties of, 277

Raffinose fermented by streptococci, 111
Relapsing fever cured by intracranial penicillin therapy, 312
Reserve material in endospores, 617
Respiration of bacteria (title only), 110
— inhibited by sulfonamides, 129, 139
Rhizobium classification by bacteriophage, 112
— viability, 110
Rickettsial diseases, laboratory diagnosis of, 207
Rubber from *Cryptostegia* leaves by fermentation, 563

Salmonella canastel, a new type, 511
— *papuana*, a new type, 514
— sera (title only), 524
— types of Maryland, 518
— types of Southern California, 522
Schizosaccharomyces adaptation through sporulation, 257
Septicemia caused by *Hemophilus influenzae*, 520
Serine assay, 204
Serology of genus *Proteus*, 419
Serum proteins antagonizing sulfonamides, 79
Shellfish investigations (title only), 109
Shigella bacteriophage in blood stream, 237, 245
— identification, serologically, 526
—, incidence and identification, 203
— types of Southern California, 522
Soap transmitting athlete's foot, 109
Sodium bismuth thioglycollate in endocarditis, 603
— tetrathionate, effect on *Aerobacter*, 629
Spores, heat activation of bacterial, 335
Sporulation as a means for adaptation, 257
Sporulation, *see* Endospores
Staphylococcus carboxylase dependent upon glucose, 68
— food poisoning, 110
Starch digestion by *Vibrio cholerae*, 163
Streptococci causing endocarditis, 603
—, fecal, isolated by Perry's medium, 526
— fermenting raffinose, 111
— of cow's udder, 523
— oxidizing butyric acid, 105
— requiring pantothenic acid, 41
Streptococcus faecalis causing gastroenteritis, 413
— *faecalis* oxidizing glycerol, 347
— *mitis*, cultivation, 415
— (viridans) killing *Mycobacterium tuberculosis*, 110
Streptothricin and *Lactobacillus casei*, 271
— -resistant bacteria, physiology of, 271
Structure of anaerobic bacteria, 1
Succinchlorimide as disinfectant, 107
Sugar, spores in, destroyed by ultraviolet, 414
— tolerance of yeast, 445
Sulfadiazine affecting penicillin action, 416
Sulfadiazine for pertussis treatment, 111

Sulfamethazine against enteric bacteria, 193
Sulfathiazole competing with pyruvate, 71
Sulfonamide isomers, effect upon enzymes, 129
Sulfonamides affecting intestinal flora (title only), 519
— inhibiting carboxylase, 65, 71, 79
— inhibiting respiration, 129, 139
— not antagonized by *p*-aminobenzoic acid, 575
— not inhibiting formate fermentation, 129
Sweet potatoes for alcoholic fermentation, 524
Symbiosis of *Alcaligenes* with *Lactobacillus*, 204
Syphilis complement-fixation test with cardiolipin, 199

Taxonomy, a paracolonlike bacterium, 513
—, *Clostridium parasporogenes* invalid, 503
—, Enterobacteriaceae, 525
— of genus *Proteus*, 419, 523
— of luminous bacteria by their antigens, 519, 547
—, medium for identification of Enterobacteriaceae, 516
—, *Mima* and *Herellea*, 512
—, *Proteus* speciation, 419, 523
—, *Pseudomonas* serology, 524
—, *Salmonella canastel*, 511
—, *Salmonella papuana*, 514
—, *Salmonella* types of Maryland, 518
—, *Salmonella* types of Southern California, 522
—, *Shigella* identification serologically, 526
—, *Shigella* types of Southern California, 522
Temperature affecting assimilation, 182
— affecting endospore formation, 473
— affecting penicillin, 85
Tetrathionate broth, effect on *Aerobacter*, 629
Thermophilic aerobic bacteria, 539
— cellulose-splitting bacteria, 205
— spores destroyed by ultraviolet, 414
Toxins, flocculative reaction test for, 203
Treponema carateum causing mal del pinto, 107
— *pallidum* fairly resistant to penicillin, 525
— *pallidum*, growth with albumin, 204
Triple-sugar iron agar for intestinal bacteria, 516

Udder streptococci, 523
Ultraviolet light sterilizing air, 203
— rays destroying spores in sugar, 414
Urease formation in *Proteus*, 419, 437

Vaccine stability, 109
Viability of nodule bacteria, 110
Vibrio cholerae digesting starch, 163
Virus storage for typing, 507
Viruses and chemotherapy, 527
Vitamin destruction by nitrite (title only), 112
— synthesis controlled by metallic ions, 167

Whooping cough, serum preparation for, 520
— cough treatment with sulfadiazine and serum, 111
Wound contaminations, 417

Yeast adapted to galactose by sporulation, 257
— production, 315
—, sugar tolerance of distillers', 445
— using β-alanine in place of pantothenic acid, 31